	Application No.	Applicant(s)
Notice of Allowability	10/644,132	ANDERSON ET AL.
	Examiner	Art Unit
	Binh C. Tat	2825
	Billi C. Tal	2023
The MAILING DATE of this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communication GHTS. This application is subject	pplication. If not included on will be mailed in due course. THIS
1. X This communication is responsive to 12/21/05.		
2. The allowed claim(s) is/are 1,3,4 and 7-15.		
3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have		
2. Certified copies of the priority documents have	• • • • • • • • • • • • • • • • • • • •	
3. Copies of the certified copies of the priority doc	cuments have been received in this	s national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		y complying with the requirements
 A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give 		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.	
(a) ☐ including changes required by the Notice of Draftspers		D-948) attached
1) hereto or 2) to Paper No./Mail Date	· ·	•
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT F 	sit of BIOLOGICAL MATERIAL FOR THE DEPOSIT OF BIOLOGI	must be submitted. Note the CAL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ⊠ Interview Summar	,, ,
3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/06	Paper No./Mail Da	Paper No./Mail Date <u>05/25/06</u> . 7. ⊠ Examiner's Amendment/Comment
Paper No./Mail Date <u>12/21/05</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Statem	nent of Reasons for Allowance
oi biologicai Materiai	9. Other	Mirang
	SUPER	RVISORY PATENT EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kim Kanzaki (Reg. No. 37,652) on 05/25/06.

The application has been amended as follow:

Claim 1 line 8, after "criterion is met" insertion –; and further comprising performing timing analysis prior to step (a) to obtain timing information and selecting a set of connections that need to be improved, wherein said incremental placement operates only on said set of connections, said set of connections selected based on deviation of said timing information from a predetermined constraint--.

Claim 2 has been canceled.

Claim 3 line 1, change "claim 2" to --claim 1--.

Claim 4 line 1, change "claim 2" to --claim 1--.

Claim 5 has been canceled.

Claim 6 has been canceled.

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1.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

suggest a method for placing and routing a design on an integrated circuit, said design having a plurality of objects, said method comprising: (a) performing incremental placement on a routed design; (b) generating a new routed design using incremental routing based on results of said

Claims 1, 3, 4, and 7-15 are allowed because the prior art does not teach or

incremental placement; (c) storing said new routed design if its quality is superior to that of said

routed design; and repeating said (a), (b), and (c) steps until a predetermined criterion is met; and

further comprising performing timing analysis prior to step (a) to obtain timing information and

selecting a set of connections that need to be improved, wherein said incremental placement

operates only on said set of connections, said set of connections selected based on deviation of

said timing information from a predetermined constraint.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

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Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Binh C. Tat whose telephone number is 571 272-1908. The

examiner can normally be reached on 7:30 - 4:00 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jack Chiang can be reached on 571 272-7483. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Tat Binh

Patent Examiner

May 25, 2006

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